

DEPARTMENT OF PUBLIC
WORKS & UTILITIES
TOWN OF SMITHFIELD, VIRGINIA
WILSON ROAD WATER TANK
REHABILITATION
IFB # 22-001
FEBRUARY 2022

SEQUENCE OF CONSTRUCTION:

1. OBTAIN APPROPRIATE CONSTRUCTION PERMITS. COORDINATE WITH ELECTRICAL POWER SUPPLIER TO PROVIDE INSULATING PROTECTIVE LAYERS TO ADJACENT POWER LINES.
2. CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE TOWN OF SMITHFIELD (TOWN) AND ENGINEER IMMEDIATELY FOLLOWING NOTICE TO PROCEED.
3. COORDINATE WITH THE TOWN FOR POTABLE WATER USE WHILE TANK IS OUT OF SERVICE AND TO CONFIRM OPERABILITY OF VALVES FOR SHUTDOWNS.
4. COORDINATE WITH TOWN TO RELOCATE EXISTING SCADA COMMUNICATION EQUIPMENT TO A TEMPORARY MOUNT. CONTRACTOR TO COORDINATE WITH TOWN TO OPERATE TANK BOWL DRAIN VALVE AND TO SHUT OFF ELECTRICAL SERVICE PRIOR TO STRUCTURAL AND ELECTRICAL OPERATIONS. ALL EXISTING VALVES AND ELECTRICAL PANELS SHALL BE OPERATED BY THE TOWN.
5. COMPLETE INTERIOR AND EXTERIOR STRUCTURAL IMPROVEMENTS.
6. PERFORM SAND BLASTING OPERATIONS TO REMOVE EXISTING COATS OF PAINT.
7. COMPLETE INTERIOR WET PAINTING OPERATIONS AND REPLACE THE DRAIN, FILL LINE, AND ALTITUDE VALVES.
8. INSTALL PAINT SHROUD NO LESS THAN 2 DAYS PRIOR TO EXTERNAL SAND BLASTING. PAINT SHROUD INSTALLATION SHALL BE APPROVED BY TOWN BEFORE COMMENCING WORK.
9. COMPLETE EXTERIOR SAND BLASTING OPERATIONS TO REMOVE EXISTING COATS OF LEAD BASED PAINT.
10. COMPLETE EXTERIOR PAINTING OPERATIONS.
11. PERFORM PRIMARY VALVE VAULT AND DRAIN VAULT WORK.
12. UPON TOWN ACCEPTANCE OF EXTERIOR PAINT WORK, REMOVE PAINT SHROUD. REPLACE AVIATION LIGHTS AND REINSTALL EXISTING SCADA COMMUNICATION EQUIPMENT.
13. DISINFECT TANK BOWL INTERIOR WALLS. RETURN ELECTRICAL AND WATER SERVICE. ALL EXISTING VALVES AND ELECTRICAL PANELS SHALL BE OPERATED BY THE TOWN.
14. REPLACE THE EXISTING SITE FENCE AND GATES WITH NEW 8" TALL, BLACK, VINYL COATED CHAIN LINK FENCING AND GATES.
15. COMPLETE NECESSARY PROPERTY RESTORATION.

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, ELEVATION, ORIENTATION, DIMENSIONS, MATERIALS, ETC. OF EXISTING MATERIAL PRIOR TO ORDERING MATERIAL.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD ANY FIELD CONDITIONS BE ENCOUNTERED THAT VARY FROM THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS.
3. AVIATION LIGHTS SHALL REMAIN IN SERVICE AND ACTIVE DURING THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL SUBMIT TO THE TOWN A PLAN TO PROTECT AND MAINTAIN SERVICE TO THE EXISTING AVIATION LIGHTS UNTIL IMMEDIATELY PRIOR TO REPLACEMENT. CONTRACTOR SHALL ENSURE THAT THE CABLES DO NOT PRESENT A TRIP HAZARD.
4. CONTRACTOR TO ENSURE SCADA COMMUNICATION REMAINS ACTIVE DURING THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL SUBMIT TO THE TOWN A PLAN TO PROTECT AND MAINTAIN SERVICE TO THE EXISTING ANTENNA BY PLACING IT ON A TEMPORARY MOUNT AT A HEIGHT ABOVE THE PAINT SHROUD AND PROTECTING THE EXPOSED CABLES FROM ABRASIVE BLASTING. CONTRACTOR SHALL ALSO REMOVE EXISTING INACTIVE ANTENNAS AND ASSOCIATED CABLES AND DISPOSE OF THEM. CONTRACTOR SHALL REINSTALL THE SCADA ANTENNA AFTER EXTERIOR COATING IS COMPLETED AND ENSURE THE CABLES DO NOT PRESENT A TRIP HAZARD.

PUBLIC WORKS & UTILITIES

TOWN OF SMITHFIELD
310 INSITUTE ST
SMITHFIELD, VIRGINIA 23430
(757) 365-4200
CONTACT: JACK REED, DIRECTOR OF PUBLIC WORKS & UTILITIES

ENGINEER

KIMLEY-HORN & ASSOCIATES, INC.
11818 ROCK LANDING DRIVE, SUITE 100
NEWPORT NEWS, VA 23606
(757) 213-8600
CONTACT: JAMIE WEIST, P.E.

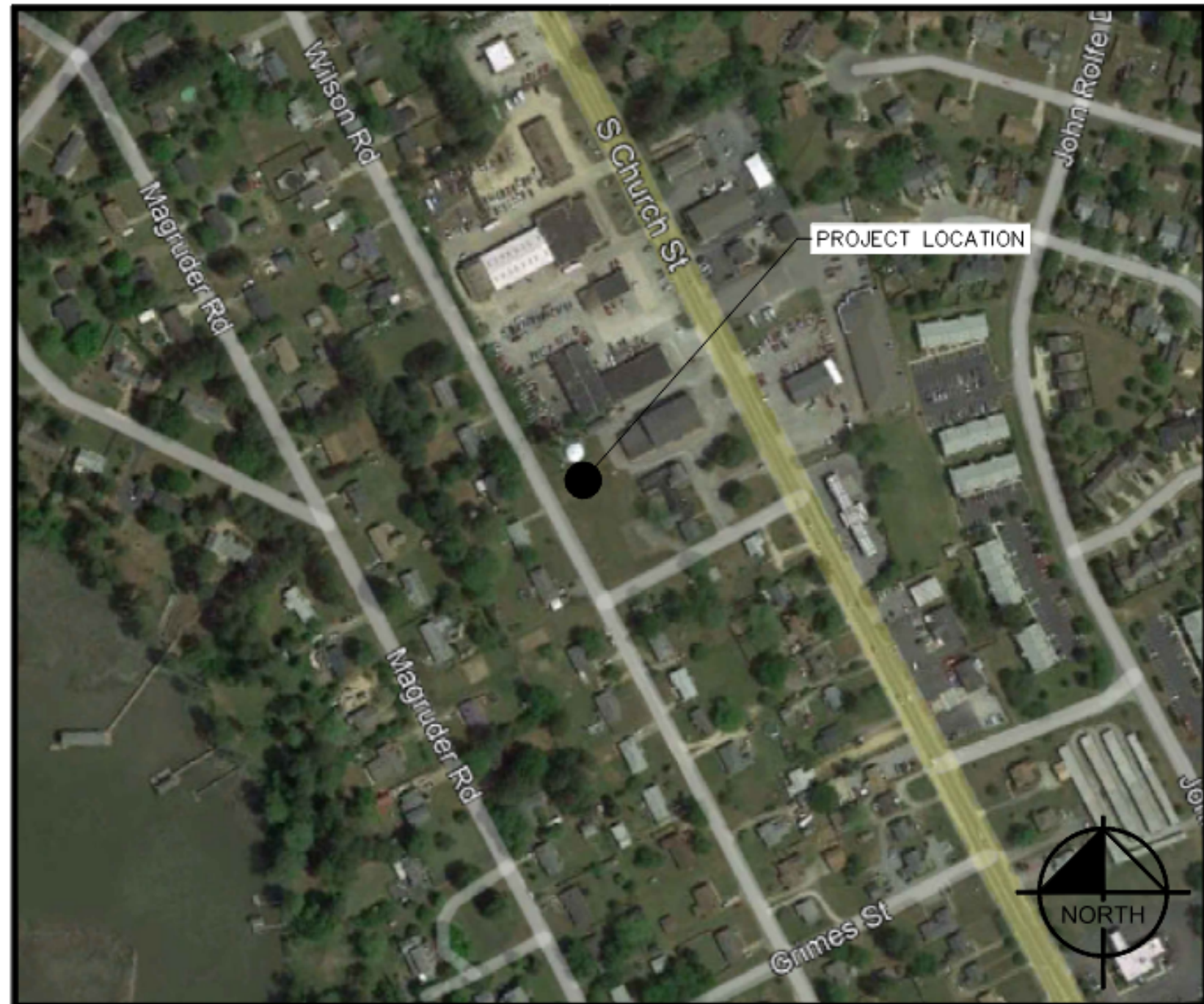
INSPECTOR

QUINN CONSULTING SERVICES, INC.
10500 WAKEMAN DRIVE, SUITE 207
FREDERICKSBURG, VA 22407
(540) 850-0435
CONTACT: WILLIAM PYBUS

APPROVED BY: TOWN OF SMITHFIELD _____ DATE _____

DocuSigned by:
Michael R. Stallings
17C08B6A9C0747

MICHAEL R. STALLINGS, TOWN MANAGER

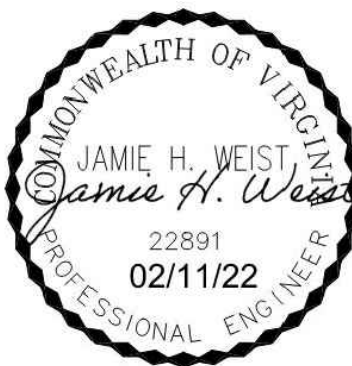


PROJECT SITE

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SEAL:

DATE:
FEBRUARY 2022

JOB NUMBER:
116499029

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NO.	DATE	DESCRIPTION	BY

REVISIONS

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
C01	COVER
C02	TANK NOTES AND OVERVIEW
C03	VAULT NOTES AND OVERVIEW
C04	AS-BUILTS

RESERVED FOR TOWN USE

PREPARED IN THE OFFICE OF:

Kimley»Horn

11818 ROCK LANDING DRIVE, SUITE 100, NEWPORT NEWS, VA 23606
PHONE: 757-213-8600
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PRIOR TO CONSTRUCTION, CONTRACTOR SHALL
CALL
"MISS UTILITY"
OF VIRGINIA
DIAL - 811
FOR LOCATION OF UNDERGROUND UTILITIES



1. REPLACE BOTH EXISTING LOGOS IN THE SAME GENERAL LOCATION WITH NEW LOGO.
2. FINISH COAT: FINAL COAT OF THE SELECTED PAINT SHALL BE COLOR SELECTED BY THE OWNER.
3. LOGOS: AFTER COATING OF THE FINISH EXTERIOR COAT, THE LOGOS SHALL BE APPLIED IN ADDITIONAL COAT(S) OF FLUOROURETHANE IN THE APPROPRIATE THICKNESS FOR THE FLUOROURETHANE USED. THE OWNER SHALL APPROVE THE FINAL COLORS AND SIZE FOR THE LOGOS FROM THE CONTRACTOR'S MOCK-UP BOARD.

[illegible]

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NOTE KEY



— MIN. WATER LEVEL

 $\left(\frac{2}{\dots} \right)$

DATE:	FEB 2022
HORIZONTAL SCALE:	AS SHOWN
VERTICAL SCALE:	AS SHOWN
DRAWN BY:	NLR
DESIGNED BY:	NLR
CHECKED BY:	JHW

TANK NOTES AND OVERVIEW

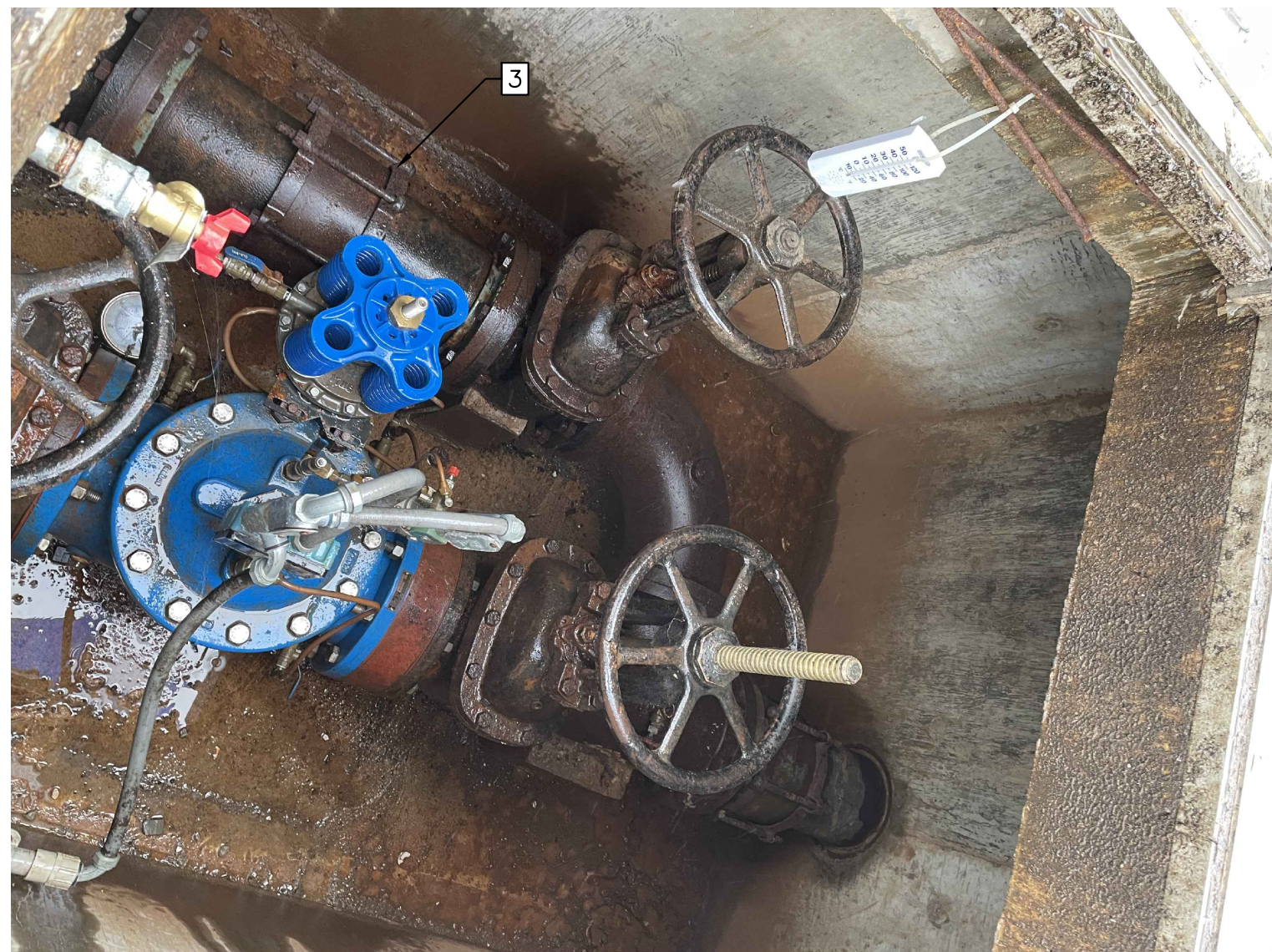
SHEET NUMBER:
2 OF 4

JOB NUMBER:
116499029



NOTE KEY		
#	ITEM	NOTES
1	REPLACE EXISTING HEATER SYSTEM IN PRIMARY VALVE VAULT.	
2	REPLACE PRIMARY VALVE VAULT SUMP PUMP AND ASSOCIATED 1.5" DIAMETER PIPING. ROUTE PIPING TO DITCH AT ROADWAY.	
3	REPLACE ALL 8" DUCTILE IRON PIPING AND RESTRAINTS TO MATCH EXISTING TO EXISTING FLANGES IN PRIMARY VALVE VAULT. COAT PIPING SYSTEM.	INSPECTION REPORT STATES EXISTING PIPING COATING SYSTEM SHOULD BE TREATED AS LEAD BASED. CONTRACTOR TO VERIFY DIAMETER PRIOR TO PURCHASING MATERIALS. SEE SPECIFICATION SECTION 099200 FOR DETAILS.
4	REPLACE THREE 8" GATE VALVES, 8" ALTITUDE VALVE, AND PRESSURE TRANSDUCER IN PRIMARY VALVE VAULT.	CONTRACTOR TO VERIFY DIAMETER PRIOR TO PURCHASING MATERIALS. SEE SPECIFICATION SECTION 099200 FOR DETAILS.
5	CLEAN AND RECOAT INTERIOR WALLS OF PRIMARY VALVE VAULT.	SEE SPECIFICATION SECTION 099200 FOR DETAILS.
6	REPLACE PRIMARY VALVE VAULT HATCH WITH 45"x45" ALUMINUM BILCO HATCH.	
7	REPLACE TWO 8" GATE VALVES IN TANK DRAIN VAULT.	CONTRACTOR TO VERIFY DIAMETER PRIOR TO PURCHASING MATERIALS.
8	CLEAN AND RECOAT INTERIOR PIPING AND WALLS OF DRAIN VAULT.	SEE SPECIFICATION SECTION 099200 FOR DETAILS.
9	REPLACE DRAIN VAULT HATCH WITH 24"x24" ALUMINUM BILCO HATCH.	
10	REPLACE THE EXISTING SITE FENCE, GATE AND PEDESTRIAN GATE WITH NEW 8' TALL, BLACK, VINYL COATED CHAIN LINK FENCE AND GATES.	

1. PLANIMETRIC FEATURES ARE BASED ON LATEST AVAILABLE DATA. THE ENGINEER CANNOT CONFIRM THE LOCATION OR EXISTENCE OF PLANIMETRIC FEATURES SHOWN IN THESE DRAWINGS.
2. AERIAL DATA WAS PROVIDED BY GOOGLE EARTH PRO AND WAS OBTAINED ON JANUARY 11, 2022.

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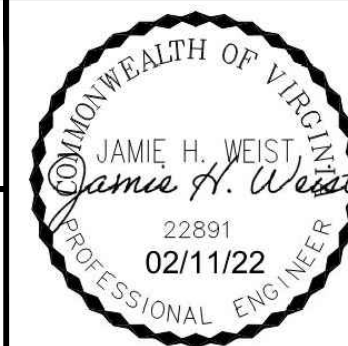
Kimley»»Horn

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CLIENT: **DEPT. OF PUBLIC WORKS & UTILITIES**
TOWN OF SMITHFIELD, VA

PROJECT:

WILSON ROAD WATER TANK REHABILITATION



DATE:	FEB 2022
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DESIGNED BY:	NLR
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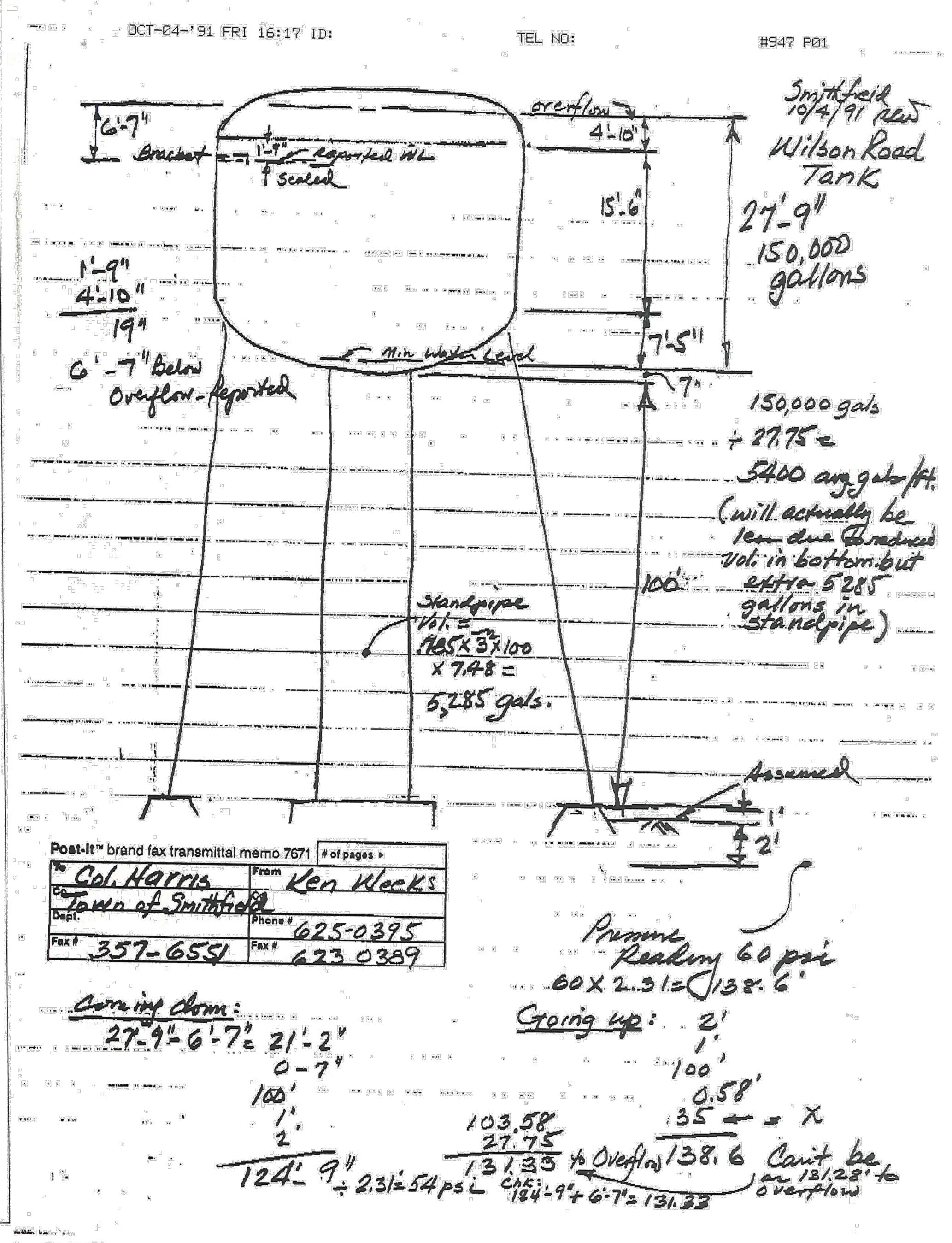
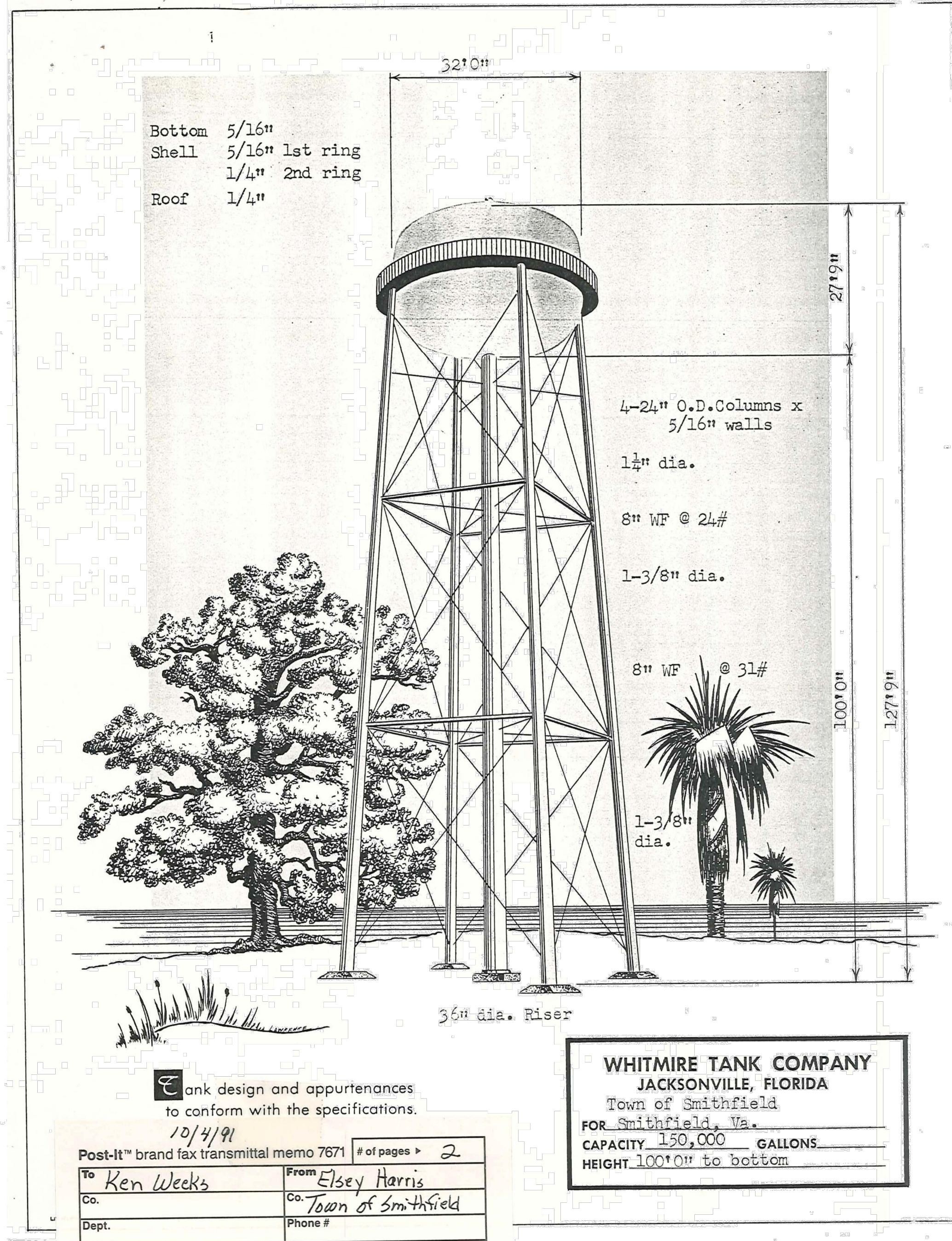
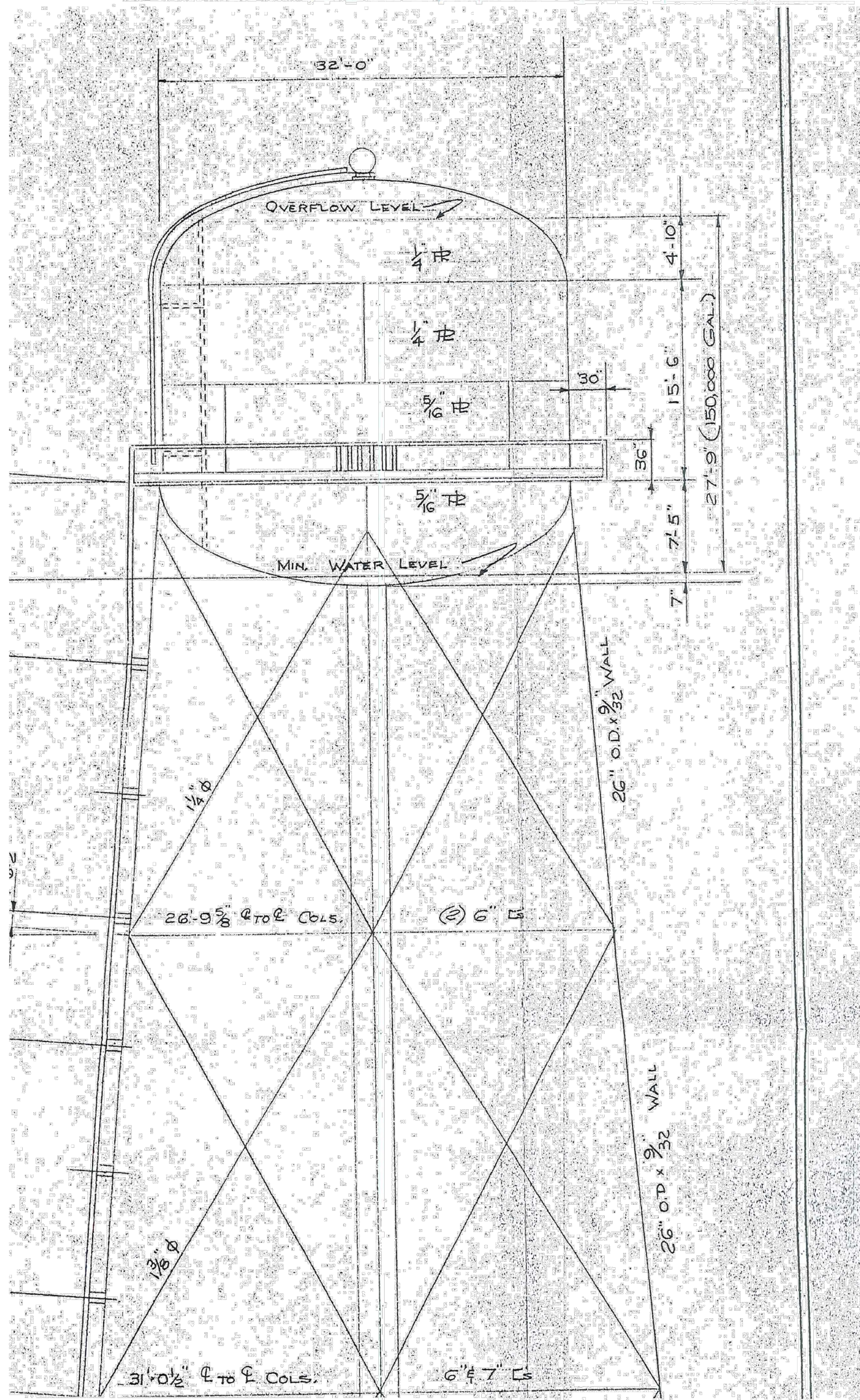
TITLE:

VAULT NOTES AND OVERVIEW

C03

SHEET NUMBER:
3 OF 4

JOB NUMBER:
116499029



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**DEPT. OF PUBLIC WORKS & UTILITIES
TOWN OF SMITHFIELD, VA**

PROJECT:

WILSON ROAD WATER TANK REHABILITATION

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HORIZONTAL SCALE: AS SHOWN
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DESIGNED BY: NLR
CHECKED BY: JHW

TITLE:

AS-BUILTS

SHEET NUMBER: **4** OF **4**
JOB NUMBER: 116499029